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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/769,815

02/03/2004

Byung Hyun An

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EXAMINER

LESPERANCE, JEAN E

ART UNIT

PAPER NUMBER

2629

NOTIFICATION DATE

DELIVERY MODE

05/09/2007

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

Office Action Summary

Application No.

10/769,815

Applicant(s)

AN, BYUNG HYUN

Examiner

Jean E. Lesperance

Art Unit

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 February 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-17 and 20-25 is/are allowed.
- 6) ☒ Claim(s) 18 and 19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. The amendment filed February 15, 2007 is entered and claims 1-25 are pending.

Response to Arguments

2. Applicant's arguments with respect to claims 18 and 19 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent # 5,545,105 ("Kim") in view of US Patent No. 5,978,922 ("Arai et al").

Regarding claim 18, Kim teaches a method for processing displayed data in a system having a computer for processing data (computer Fig.1 (11)) and a display device with an amplifier for amplifying input signals from the computer (horizontal deflecting amplifier Fig.3 (34)) and a controller (controller Fig.3 (31)), the method comprising the steps of: processing and displaying data (display Fig.3 (37)); and saving in a memory a storage section of an image signal set for a signal generated by the storage command signal and to a synchronizing signal (control means for controlling the

power means to provide the operating voltage to the driving means and simultaneously setting the reference time value of the power saving mode in the memory means, in response to the power supply signal generated from the power supply signal generating means, updating the reference time value stored in the memory means in response to the timer interrupt signal, and cutting off the operating voltage supplied to the driving means by controlling the power means when the reference time value stored in the memory means is a preset time value (column 2, lines 12-22)). Accordingly, Kim teaches all the claimed limitations with the exception of providing determining whether the computer is off or frozen and if the computer is off or frozen, applying a storage command signal to the display device in order to save displayed.

However, Arai et al. teach portable personal computers have resume function. When a personal computer of this type is switched off, or more precisely when its power switch is turned off, the data items representing the conditions the display panel, the computer and the application program assume immediately before the power switch is turned off are saved in a memory which is driven by the battery. When the power switch is turned on, the display panel, the computer and the application program resumes the conditions represented by the data items saved in the battery-driven memory (column 1, lines 11-20).

Thus, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to utilize the personal computer as taught by Arai et al. in the system disclosed by Kim because this would provide a computer system which can

fast restore the data required to resume the last operating conditions, within a short time after the system is switched on (column 3, lines 1-4).

Regarding claim 19, Kim teaches when the data saved in the memory is restored, converting and displaying the data saved in the memory (The display unit 37 deflects the video signal in response to the outputs of the horizontal deflecting amplifier 34 and the vertical deflecting amplifier 35, and displays the video signal received from the video processor 33 on the display screen (column 7, lines 11-15)).

Allowable Subject Matter

4. Claims 1-17, and 20-25 are allowed.
5. The following is an examiner's statement of reasons for allowance: the claimed invention is directed to an apparatus for processing displayed data.

Independent claims 1 and 2 identify a uniquely distinct feature "a comparator for comparing the selection signal with the vertical synchronizing signal, each being outputted from the Micom, and outputting a storage related signal and a memory for saving an image signal corresponding to the storage related signal generated as an output signal from the comparator".

Independent claim 15 identifies a uniquely distinct feature "a comparator for comparing the selection signal with the synchronizing signal, each being outputted from the Micom, and outputting a storage related signal and a memory for saving an image signal corresponding to the storage related signal generated as an output signal from the comparator".

Independent claim 20 identifies a uniquely distinct feature "and in response to a selection signal generated by the storage command signal and a vertical synchronizing signal, said storage command signal being dependent on an operational state of the computer, storing an image signal displayed on the display device in a memory".

Independent claim 22 identifies a uniquely distinct feature "in response to a selection signal generated by the storage command signal and a vertical synchronizing signal in dependence of an operational state of the computer, storing an image signal displayed on the display device in a memory".

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean Lesperance whose telephone number is (571) 272-7692. The examiner can normally be reached on from Monday to Friday between 10:00AM and 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (571) 272-7691.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:

(571) 273-8300 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal

Art Unit: 2629

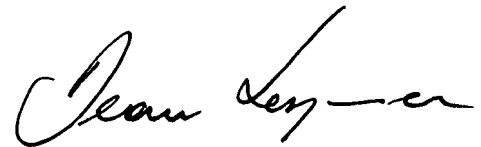
drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Jean Lesperance

Art Unit 2629

Date 5/2/2007

A handwritten signature in cursive script, reading "Jean Lesperance". The signature is written in black ink and is positioned to the right of the typed name.